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# 2006 MICHIGAN SPRING TURKEY HUNTER SURVEY

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## ABSTRACT

*A survey of turkey hunters was conducted following the 2006 spring hunting season to determine turkey harvest and hunter participation. In 2006, nearly 102,000 hunters harvested about 39,000 turkeys. Statewide, 38% of hunters harvested a turkey. The 2006 turkey harvest was 10% greater than the 2005 harvest and was the largest harvest in Michigan's history. The number of hunters increased 13%, and their hunting effort increased 18% between 2005 and 2006. Nearly 64% of the hunters rated their hunting experience as excellent, very good, or good in 2006. About 88% of the hunters reported they experienced no or only minor interference from other hunters.*

## INTRODUCTION

Michigan's spring turkey (*Meleagris gallopavo*) hunting season was based originally on an area and quota system. This system was set up primarily to distribute hunters across geographic areas (management units) and time (hunt periods). As the turkey population has expanded statewide, however, new license types have been created that have allowed hunters to hunt in multiple management units. The goal of the current system has been to provide hunting opportunities while maintaining acceptable levels of hunter satisfaction (Luukkonen 1998).

In 2006, 77% of the state (46,305 square miles) was open for wild turkey hunting from April 17 through May 31 (Figure 1). Compared to 2005, the area open for turkey hunting was increased by 5%. Hunting was expanded in four counties (Macomb, Oakland, St. Clair, and Wayne). The hunting area was divided into 25 management units (Figure 1). Hunting licenses were available for three types of hunts on these management units: (1) licenses for quota hunts on a specific management unit, (2) licenses for a quota hunt on private lands in southern Michigan (Hunt 301), and (3) licenses for an unlimited quota (i.e., no quota) hunt that included all units (Hunt 234).



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People interested in obtaining a turkey hunting license could enter into a random drawing (lottery) conducted by the Department of Natural Resources or purchase a license for Hunt 234 between January 1 and February 1 without going through the lottery. Each applicant in the lottery could select up to two hunt choices (any combination of quota and unlimited quota hunts). The lottery consisted of two drawings. The first drawing was used to select applicants based on their preferred hunt choice. The second drawing was among applicants who were not successful in the first drawing, and was based on the hunter's second choice for a hunt. Any licenses available after the drawing was completed were made available on a first-come, first-served basis to applicants that were unsuccessful in the drawing. Unsuccessful applicants could purchase one leftover license or a license for Hunt 234. Beginning one week after licenses were available to unsuccessful applicants, all remaining licenses except licenses for Hunt 234 were made available to nonapplicants. Hunters were allowed to purchase one license and take one bearded turkey with the harvest tag issued with their license.

A limited number of licenses were available for quota hunts, and they were valid only in a certain management unit and only during a limited time period (7-24 days). Most quota hunts began before May 5 and lasted for 7 days. A private land management unit (Unit ZZ) was created in 2002 that included all private lands in southern Michigan (Figure 1). Hunters who selected Hunt 301 could hunt the first two weeks of the season (April 17-30) anywhere on private lands in Unit ZZ. This unit and hunt period was created to provide additional hunting opportunity and increased flexibility for hunters who had difficulty finding time to hunt during shorter quota hunts.

Licenses for Hunt 234 could be used in any management unit. They were valid on public and private lands except in Unit ZZ where they were only valid on private lands or on Fort Custer military lands. Hunt 234 started later than most quota hunts but lasted for 31 days (May 1-31). An unlimited number of licenses were available for Hunt 234. Hunters could apply for and obtain a license for Hunt 234 through the lottery process. Alternatively, hunters could purchase a hunting license for Hunt 234 during the drawing application period (January 1-February 1) and forego the drawing for this license (i.e., lottery) or unsuccessful applicants could purchase a leftover license after the lottery. Hunt 234 was not available to purchase as a left-over license for people that had not been in the lottery.

The Wildlife Division has the authority and responsibility to protect and manage the wildlife resources of the State of Michigan. Harvest surveys are a management tool used by the Wildlife Division to accomplish its statutory responsibility. Estimating harvest, hunting effort, and hunter satisfaction are the primary objectives of this survey.

## **METHODS**

The Wildlife Division provided all hunters the option to report voluntarily information about their turkey hunting activity via the Internet. This option was advertised in the hunting regulation booklet and through a statewide news release. Hunters could report information anytime during the hunting season. Hunters reported whether they hunted, the days spent afield, whether they harvested a turkey, and whether other hunters

caused interference during their hunt (none, minor, some irritation, or major problem). Successful hunters were also asked to report where their turkeys were taken (public or private land), date of harvest, and beard length of the harvested bird. Birds with a beard less than 6 inches were classified as juveniles (1 year old), while birds with longer beards were adults (2 years old or greater). Finally, hunters rated their overall hunting experience (excellent, very good, good, fair, or poor).

Following the 2006 spring turkey hunting season, a questionnaire was sent to 23,942 randomly selected people that had purchased a turkey hunting license (resident turkey, senior resident turkey, and nonresident turkey licenses) and had not already voluntarily reported harvest information via the Internet. Hunters receiving the questionnaire were asked to report the same information that was collected from hunters that reported voluntarily on the Internet.

Estimates were calculated using a stratified random sampling design that included 28 strata (Cochran 1977). Hunters were stratified based on the management unit where their license was valid (25 management units). Hunters who purchased a license that could be used in multiple management units (hunts 234 and 301) were treated as separate strata (strata 26 and 27). Moreover, people that had voluntarily reported information about their hunting activity via the Internet were treated as a separate stratum (twenty-eighth stratum). A 95% confidence limit (CL) was calculated for each estimate. This confidence limit could be added to and subtracted from the estimate to calculate the 95% confidence interval. The confidence interval was a measure of the precision associated with the estimate and implies the true value would be within this interval 95 times out of 100. Estimates were based on information collected from random samples of hunting license buyers. Thus, these estimates were subject to sampling errors (Cochran 1977). Estimates were not adjusted for possible response or nonresponse biases.

Statistical tests are used routinely to determine the likelihood that differences among estimates are larger than expected by chance alone. The overlap of 95% confidence intervals was used to determine whether estimates differed. Non-overlapping 95% confidence intervals was equivalent to stating the difference between the means was larger than would be expected 995 out of 1,000 times ( $P < 0.005$ ), if the study had been repeated (Payton et al. 2003).

Questionnaires were mailed initially during mid-June 2006, and up to two follow-up questionnaires were mailed to nonrespondents. Although 23,942 people were sent the questionnaire, 265 surveys were undeliverable resulting in an adjusted sample size of 23,677. Questionnaires were returned by 16,861 people, yielding a 71% adjusted response rate. In addition, 5,409 people voluntarily reported information about their hunting activity via the Internet before the random sample was selected.

## **RESULTS AND DISCUSSION**

In 2006, licenses were purchased by 125,936 people, an increase of 16% from 2005 (Table 1). Most of the people buying a license were men (93%), and the average age of

the license buyers was 43 years (Figure 2). Nearly 8% (10,168) of the license buyers were younger than 17 years old.

About 81% ( $\pm 1\%$ ) of license buyers hunted turkeys (101,907 hunters). Most of these hunters were men ( $95,487 \pm 795$ ), although nearly 5% ( $\pm 1\%$ ) of the hunters were women ( $6,420 \pm 412$ ). Hunter numbers (Table 2) increased by 13% from 2005. Counties listed in descending order with more than 2,000 hunters afield included Newaygo, Montcalm, Kent, Allegan, Tuscola, Lapeer, Jackson, Barry, Sanilac, Alcona, Saginaw, Calhoun, and Ionia (Table 3).

Hunters spent an estimated 490,608 days afield pursuing turkeys ( $4.8 \pm 0.1$  days/hunter), an increase of 18% from 2005, and harvested approximately 38,942 birds (Figure 3). Counties listed in descending order with hunters taking more than 1,000 turkeys included Kent, Newaygo, Montcalm, Allegan, Jackson, Lapeer, Barry, and Tuscola (Table 3). Hunter success was 38% in 2006, compared to 39% hunter success in 2005. The number of turkeys harvested in 2006 was the largest harvest in Michigan's history. The 2006 harvest was 4% higher than the previous record harvest of 37,522 turkeys taken in 2004.

About 34% ( $\pm 1\%$ ) of the harvested birds were juvenile males ( $13,156 \pm 575$ ); 65% ( $\pm 1\%$ ) were adult males ( $25,220 \pm 720$ ), and about 1% were bearded females ( $516 \pm 114$ ). Additionally, the age of a small number of harvested birds ( $<1\%$ ) was unknown ( $51 \pm 44$ ) because hunters failed to report a beard length.

Hunting effort and the number of turkeys harvested were generally highest during the earliest hunting periods (Figures 4-7). For turkeys that the harvest date was known, 39% of these birds were taken during the first seven days (April 17-23). Daily hunter success generally was more than 8% during April 17 through May 1. Daily hunter success was about 5-7% for the remainder of May. Hunting effort and harvest generally was greater on the weekends than weekdays, especially on Saturdays.

About 79% of turkey hunters hunted solely on private land; 15% hunted on public land only; and 6% hunted on both private and public lands (Table 4). Of the 38,942 turkeys harvested in 2006,  $87 \pm 1\%$  were taken on private land ( $34,056 \pm 789$  birds). About  $12 \pm 1\%$  of the harvest ( $4,838 \pm 405$  birds) were taken on public land.

Hunter satisfaction is one measure used to assess the turkey management program in Michigan. Of the estimated 101,907 people hunting turkeys in 2006,  $60 \pm 2\%$  of the hunters rated their hunting experience as either excellent ( $17,579 \pm 617$  hunters), very good ( $19,638 \pm 668$ ), or good ( $27,697 \pm 780$ ) (Table 5). Nearly  $21 \pm 2\%$  of the hunters rated their experience as fair ( $20,162 \pm 697$  hunters). Only  $17 \pm 1\%$  of the hunters rated their experience as poor ( $14,608 \pm 623$  hunters). About 2% of the hunters ( $2,223 \pm 251$  hunters) failed to rate their hunting experience.

Hunter satisfaction is affected by many factors such as hunting success and whether hunting activities were completed without interference (Luukkonen 1998). In 2006,  $66 \pm 1\%$  of the hunters reported no hunter interference;  $22 \pm 1\%$  reported minor

interference;  $8 \pm 1\%$  reported some irritation caused by hunter interference; and  $2 \pm 1\%$  reported hunter interference was a major problem (Table 6).

Although interference can affect hunter satisfaction, hunter satisfaction was more closely associated with hunter success (Figures 8 and 9). Both hunter success and hunter satisfaction were unchanged statistically between 2005 and 2006. Hunter success was greater than 25% in all hunt periods, although hunters pursuing turkeys during the earliest hunt period were more successful and more satisfied than people hunting during later periods (Table 7).

Compared to 2005, all regions of the state had increased numbers of hunters and hunting effort (Table 8). However, only the Southern Lower Peninsula (SLP) experienced a significant increase in the number of turkeys harvested. Hunter success and hunter satisfaction changed in all regions except the SLP which experienced lower hunting success and reduced hunter satisfaction between 2005 and 2006 (Table 9).

## **ACKNOWLEDGEMENTS**

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Table 1. Number of hunting licenses available and people applying for licenses during the 2006 Michigan spring turkey hunting season.

Management unit or hunt period	Licenses available (quota)	Number of eligible applicants <sup>a</sup>	Number of applicants successful in drawing <sup>b</sup>	Number of licenses remaining after drawing	Number of licenses purchased by successful applicants <sup>c</sup>	Number of leftover licenses purchased by unsuccessful applicants <sup>c</sup>	Number of licenses purchased by people not in the drawing <sup>c</sup>	Number of licensees <sup>c</sup>
A	2,500	2,044	2,075	425	1,532	18	358	1,908
AA	1,400	994	984	416	757	18	128	903
B	4,000	1,954	2,009	1,991	1,460	53	331	1,844
E	1,700	3,191	1,700	0	1,277	0	0	1,277
F	6,200	7,064	6,200	0	4,514	0	0	4,514
J	4,000	3,282	3,200	800	2,330	72	631	3,033
K	8,500	15,005	8,500	0	6,689	0	0	6,689
L	2,000	2,506	1,698	302	1,357	140	141	1,638
M	1,900	678	688	1,212	519	4	246	769
MA	700	255	255	445	196	2	132	330
N	2,200	1,023	1,026	1,174	782	2	233	1,017
O	2,800	1,192	1,197	1,603	905	7	331	1,243
P	600	1,723	600	0	393	0	0	393
Q	1,950	2,798	1,680	270	1,157	144	99	1,400
QD	40	99	40	0	27	0	0	27
R	400	687	363	37	263	32	3	298
RA	40	164	40	0	25	0	0	25
T	1,700	2,514	1,506	194	1,078	118	54	1,250
U	1,200	1,411	974	226	718	42	160	920
UA	1,100	1,452	807	293	631	62	208	901

<sup>a</sup>Number of eligible applicants selecting the management unit as their first choice to hunt.

<sup>b</sup>Number of successful applicants was sometimes larger than quota because of system processing errors.

<sup>c</sup>If a licensee purchased more than one license, only the latest purchase is included in the summary of licenses purchased.

Table 1 (continued). Number of hunting licenses available and people applying for licenses during the 2006 Michigan spring turkey hunting season.

Management unit or hunt period	Licenses available (quota)	Number of eligible applicants <sup>a</sup>	Number of applicants successful in drawing <sup>b</sup>	Number of licenses remaining after drawing	Number of licenses purchased by successful applicants <sup>c</sup>	Number of leftover licenses purchased by unsuccessful applicants <sup>c</sup>	Number of licenses purchased by people not in the drawing <sup>c</sup>	Number of licensees <sup>c</sup>
UB	200	305	155	45	101	11	26	138
W	1,200	1,116	985	215	666	35	156	857
X	1,760	3,356	1,695	65	1,217	59	1	1,277
Z	500	778	436	64	293	27	25	345
ZA	600	843	531	69	414	34	28	476
Hunt 301	65,000	26,026	27,151	37,849	21,987	1,425	9,042	32,454
Hunt 234	NA	1,689	3,291	NA	2,566	4,560	52,884 <sup>d</sup>	60,010
Statewide	114,190	84,149	69,786	47,695	53,854	6,865	65,217	125,936

<sup>a</sup>Number of eligible applicants selecting the management unit as their first choice to hunt.

<sup>b</sup>Number of successful applicants was sometimes larger than quota because of system processing errors.

<sup>c</sup>If a licensee purchased more than one license, only the latest purchase is included in the summary of licenses purchased.

<sup>d</sup>Licenses sold between January 1 and February 1.

Table 2. Number of hunters, hunting efforts, harvest, and hunter success during the spring 2006 Michigan turkey hunting season.

Management unit	Hunters <sup>a</sup>		Hunting efforts (days) <sup>a</sup>		Harvest <sup>a</sup>		Hunter success		Hunter satisfaction <sup>b</sup>		Noninterfered hunters <sup>c</sup>	
	Total	95% CL	Total	95% CL	Total	95% CL	%	95% CL	%	95% CL	%	95% CL
Hunt periods with quotas												
A	1,659	81	7,134	754	630	111	38	6	54	7	90	4
AA	766	40	3,202	394	204	45	27	6	45	7	83	5
B	1,586	79	6,272	576	451	95	28	6	53	7	93	3
E	1,154	46	3,750	298	468	73	41	6	63	6	96	2
F	4,080	159	15,714	1,315	882	207	22	5	53	6	88	4
J	2,659	128	9,281	926	1,125	183	42	7	58	7	88	4
K	5,888	256	21,086	1,812	2,412	368	41	6	63	6	89	4
L	1,436	67	6,234	936	513	92	36	6	69	6	80	5
M	646	38	2,209	267	247	47	38	7	57	7	86	5
MA	287	15	1,195	151	86	19	30	7	61	7	89	5
N	920	37	3,396	279	361	59	39	6	61	6	89	4
O	1,064	56	3,821	418	535	78	50	7	70	6	96	3
P	339	20	1,424	218	97	24	29	7	69	7	89	5
Q	1,186	64	5,045	555	311	71	26	6	60	7	82	5
QD	26	1	110	17	11	3	43	10	81	8	74	10
R	262	14	1,217	174	91	18	35	7	61	7	84	5
RA	22	3	77	15	9	4	43	16	57	16	93	8
T	1,128	47	4,418	464	307	66	27	6	61	6	87	4
U	832	36	3,478	459	288	55	35	6	67	6	89	4
UA	765	44	3,391	499	268	54	35	7	69	7	86	5

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one unit for hunts 234 and 301. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.

<sup>c</sup>Proportion of hunters that indicated they experienced no or only minor interference from other hunters.



Table 2 (continued). Number of hunters, hunting efforts, harvest, and hunter success during the spring 2006 Michigan turkey hunting season.

Management unit	Hunters <sup>a</sup>		Hunting efforts (days) <sup>a</sup>		Harvest <sup>a</sup>		Hunter success		Hunter satisfaction <sup>b</sup>		Noninterfered hunters <sup>c</sup>	
	Total	95% CL	Total	95% CL	Total	95% CL	%	95% CL	%	95% CL	%	95% CL
Hunt periods with quotas												
UB	116	7	542	79	38	9	33	7	64	7	85	5
W	706	43	2,662	320	287	52	41	7	65	7	94	4
X	1,100	55	4,586	505	330	66	30	6	60	6	82	5
Z	313	14	1,403	180	112	22	36	7	66	7	90	4
ZA	434	17	1,888	184	158	27	36	6	57	6	82	5
Subtotal	29,375	387	113,535	3,119	10,222	534	35	2	60	2	88	1
Hunt period 301 with quota (Management Unit ZZ; April 17-30, 2006)												
L	2,189	176	9,078	945	981	119	45	4	75	4	87	3
P	5,423	263	23,050	1,455	2,568	189	47	3	73	2	86	2
Q	3,006	204	12,316	1,060	1,354	140	45	4	73	3	86	3
QD	103	40	333	149	39	24	38	19	65	19	85	14
R	1,531	150	7,135	906	663	100	43	5	70	5	87	3
RA	1,189	132	5,033	708	553	90	46	6	74	5	89	4
T	3,360	215	14,121	1,179	1,296	137	39	3	69	3	88	2
U	1,528	150	6,383	802	689	101	45	5	72	5	88	3
UA	690	102	2,541	471	375	75	54	7	79	6	89	5
UB	1,051	125	4,276	636	466	83	44	6	74	5	82	5
W	1,493	146	6,281	799	731	102	49	5	70	5	89	3
X	4,192	236	17,630	1,288	1,879	163	45	3	74	3	85	2
Z	1,846	163	7,290	796	847	111	46	5	73	4	86	3

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one unit for hunts 234 and 301. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.

<sup>c</sup>Proportion of hunters that indicated they experienced no or only minor interference from other hunters.

Table 2 (continued). Number of hunters, hunting efforts, harvest, and hunter success during the spring 2006 Michigan turkey hunting season.

Management unit	Hunters <sup>a</sup>		Hunting efforts (days) <sup>a</sup>		Harvest <sup>a</sup>		Hunter success		Hunter satisfaction <sup>b</sup>		Noninterfered hunters <sup>c</sup>	
	Total	95% CL	Total	95% CL	Total	95% CL	%	95% CL	%	95% CL	%	95% CL
Hunt period 301 with quota (Management Unit ZZ; April 17-30, 2006)												
ZA	1,129	130	4,689	665	511	88	45	6	74	5	88	4
Unknown	895	114	3,365	549	250	61	28	6	66	6	89	4
Subtotal	28,460	235	123,519	2,390	13,201	346	46	1	72	1	87	1
Unlimited quota hunt period (Hunt 234; May 1-31, 2006)												
A	474	113	2,220	688	104	54	22	10	52	12	98	3
AA	351	99	1,643	671	68	44	19	11	47	14	88	9
B	445	109	2,034	630	51	35	11	7	39	12	98	3
E	2,026	231	9,974	1,639	469	111	23	5	49	6	89	4
F	2,723	265	14,549	2,020	544	120	20	4	43	5	87	3
J	1,814	217	8,998	1,474	575	122	32	6	54	6	92	3
K	9,314	463	49,767	3,742	3,166	284	34	3	57	3	87	2
L	2,259	244	11,261	1,627	792	145	35	5	68	5	90	3
M	224	77	1,273	630	57	38	26	15	52	17	96	7
MA	114	56	756	497	27	27	24	21	39	24	93	13
N	391	101	2,031	651	177	67	45	13	64	12	93	7
O	499	114	3,224	1,170	170	66	34	11	65	11	92	6
P	3,991	319	23,867	2,572	1,461	196	37	4	65	4	88	3
Q	3,001	279	15,967	2,072	1,051	167	35	5	68	4	90	3
QD	96	51	574	355	19	22	20	21	55	26	91	15
R	1,518	201	8,263	1,568	531	118	35	6	63	7	84	5

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one unit for hunts 234 and 301. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.

<sup>c</sup>Proportion of hunters that indicated they experienced no or only minor interference from other hunters.

Table 2 (continued). Number of hunters, hunting efforts, harvest, and hunter success during the spring 2006 Michigan turkey hunting season.

Management unit	Hunters <sup>a</sup>		Hunting efforts (days) <sup>a</sup>		Harvest <sup>a</sup>		Hunter success		Hunter satisfaction <sup>b</sup>		Noninterfered hunters <sup>c</sup>	
	Total	95% CL	Total	95% CL	Total	95% CL	%	95% CL	%	95% CL	%	95% CL
Unlimited quota hunt period (Hunt 234; May 1-31, 2006)												
RA	977	162	5,395	1,202	394	102	40	8	64	8	90	5
T	3,068	283	16,372	2,122	954	159	31	4	64	5	86	3
U	1,892	226	11,246	1,831	602	127	32	6	59	6	93	3
UA	1,544	204	8,898	1,594	511	117	33	6	63	6	85	5
UB	835	150	3,835	909	283	87	34	9	72	8	85	6
W	1,712	213	8,232	1,402	656	132	38	6	67	6	92	4
X	3,540	301	17,218	1,963	1,167	175	33	4	65	4	90	3
Z	2,190	241	11,124	1,733	894	154	41	5	67	5	87	4
ZA	1,542	204	8,853	1,618	627	130	41	7	71	6	90	4
Unknown	1,180	170	5,982	1,313	169	64	14	5	52	7	90	4
Subtotal	44,072	571	253,554	6,777	15,518	558	35	1	61	1	89	1
Statewide <sup>d</sup>	101,907	729	490,608	7,833	38,942	846	38	1	64	1	88	1

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one unit for hunts 234 and 301. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.

<sup>c</sup>Proportion of hunters that indicated they experienced no or only minor interference from other hunters.

Table 3. Estimated number of hunters, hunting effort, harvest, hunter success, hunter satisfaction, and hunt interference during the 2006 Michigan spring turkey hunting season. Estimates combined quota and unlimited quota hunts in each county.

County	Hunters <sup>a</sup>		Hunting efforts (days) <sup>a</sup>		Harvest <sup>a</sup>		Hunter success		Hunter satisfaction <sup>b</sup>		Noninterfered hunters <sup>c</sup>	
	Total	95% CL	Total	95% CL	Total	95% CL	%	95% CL	%	95% CL	%	95% CL
Alcona	2,427	253	9,698	1,223	553	133	23	5	47	6	90	4
Alger	85	39	175	90	29	23	34	22	84	18	100	0
Allegan	3,234	240	14,861	1,680	1,210	153	37	4	69	4	86	3
Alpena	1,277	161	5,786	965	471	107	37	7	52	7	94	4
Antrim	1,196	196	4,551	950	463	131	39	9	55	9	90	6
Arenac	629	122	2,535	658	230	72	37	9	55	10	87	7
Baraga <sup>d</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Barry	2,679	233	11,337	1,331	1,054	147	39	4	73	4	86	3
Bay	434	98	2,197	728	139	53	32	10	62	11	90	7
Benzie	603	169	2,482	805	222	111	37	14	61	13	82	10
Berrien	923	136	4,156	830	399	88	43	7	71	7	87	5
Branch	1,266	158	5,998	1,125	625	111	49	6	73	6	85	5
Calhoun	2,260	210	10,552	1,307	934	131	41	5	71	4	87	3
Cass	1,427	164	7,412	1,143	599	107	42	6	71	5	86	4
Charlevoix	927	176	3,261	814	322	107	35	10	67	10	85	8
Cheboygan	857	172	3,297	831	288	106	34	10	50	11	89	7
Chippewa <sup>d</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Clare	1,397	172	6,341	1,252	442	98	32	6	60	6	92	4
Clinton	1,923	193	9,018	1,218	753	120	39	5	64	5	84	4
Crawford	1,086	212	4,893	1,151	146	74	13	6	45	10	86	7
Delta	1,262	128	5,674	1,158	563	94	45	7	70	6	94	3

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one county. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.

<sup>c</sup>Proportion of hunters that indicated they experienced no or only minor interference from other hunters.

<sup>d</sup>Not open for turkey hunting.

Table 3 (continued). Estimated number of hunters, hunting effort, harvest, hunter success, hunter satisfaction, and hunt interference during the 2006 Michigan spring turkey hunting season. Estimates combined quota and unlimited quota hunts in each county.

County	Hunters <sup>a</sup>		Hunting efforts (days) <sup>a</sup>		Harvest <sup>a</sup>		Hunter success		Hunter satisfaction <sup>b</sup>		Noninterfered hunters <sup>c</sup>	
	Total	95% CL	Total	95% CL	Total	95% CL	%	95% CL	%	95% CL	%	95% CL
Dickinson	870	86	3,482	684	304	60	35	6	56	7	88	4
Eaton	1,858	194	8,690	1,246	817	126	44	5	69	5	90	3
Emmet	628	147	2,509	805	246	94	39	12	63	12	97	3
Genesee	1,441	172	5,901	933	486	99	34	6	70	6	85	4
Gladwin	1,078	152	4,268	909	245	68	23	6	45	7	93	4
Gogebic <sup>d</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Gd. Traverse	946	217	4,355	1,180	354	149	37	12	61	11	82	9
Gratiot	1,765	179	7,948	1,203	712	118	40	5	74	4	90	3
Hillsdale	1,653	181	7,323	1,074	579	104	35	5	66	5	80	5
Houghton <sup>d</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Huron	1,636	180	7,358	1,154	513	98	31	5	66	5	86	4
Ingham	1,662	182	7,059	1,064	591	105	36	5	71	5	90	3
Ionia	2,165	209	9,555	1,265	857	131	40	5	68	5	89	3
Iosco	1,421	243	5,770	1,181	288	110	20	7	46	9	88	6
Iron	401	58	1,951	519	113	33	28	8	54	9	90	5
Isabella	1,795	189	7,499	1,093	768	123	43	5	69	5	89	3
Jackson	2,715	228	11,879	1,341	1,175	150	43	4	71	4	87	3
Kalamazoo	1,496	175	6,500	1,091	530	102	35	6	68	6	91	3
Kalkaska	1,086	231	4,436	1,128	305	140	28	11	41	11	85	9
Kent	3,346	259	15,186	1,732	1,362	165	41	4	70	4	88	3
Keweenaw <sup>d</sup>	0	0	0	0	0	0	0	0	0	0	0	0

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one county. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.

<sup>c</sup>Proportion of hunters that indicated they experienced no or only minor interference from other hunters.

<sup>d</sup>Not open for turkey hunting.

Table 3 (continued). Estimated number of hunters, hunting effort, harvest, hunter success, hunter satisfaction, and hunt interference during the 2006 Michigan spring turkey hunting season. Estimates combined quota and unlimited quota hunts in each county.

County	Hunters <sup>a</sup>		Hunting efforts (days) <sup>a</sup>		Harvest <sup>a</sup>		Hunter success		Hunter satisfaction <sup>b</sup>		Noninterfered hunters <sup>c</sup>	
	Total	95% CL	Total	95% CL	Total	95% CL	%	95% CL	%	95% CL	%	95% CL
Lake	1,908	308	7,260	1,337	553	180	29	8	67	8	92	4
Lapeer	2,756	236	13,054	1,524	1,171	155	43	4	71	4	88	3
Leelanau	434	146	1,945	788	177	98	41	17	52	17	82	13
Lenawee	1,003	142	4,668	902	325	84	32	7	74	6	81	6
Livingston	1,511	172	6,153	1,002	521	99	35	5	69	5	89	4
Luce <sup>d</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Mackinac <sup>d</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Macomb	368	88	1,201	378	99	42	27	10	60	12	89	7
Manistee	1,372	255	5,967	1,570	474	149	35	9	60	9	80	8
Marquette	264	73	1,150	505	112	50	43	14	65	14	97	6
Mason	998	217	4,319	1,104	327	117	33	10	68	10	89	6
Mecosta	1,910	291	7,740	1,427	739	184	39	8	62	8	86	6
Menominee	1,312	108	5,426	708	538	89	41	6	62	6	90	3
Midland	1,709	174	7,305	985	758	117	44	5	69	5	92	3
Missaukee	1,391	269	5,165	1,219	425	156	31	9	56	10	89	7
Monroe	196	61	942	382	60	31	31	14	64	15	88	10
Montcalm	3,419	251	16,797	1,854	1,258	153	37	4	65	4	90	2
Montmorency	1,361	133	5,721	847	360	80	26	5	46	6	86	4
Muskegon	1,921	190	8,397	1,204	704	111	37	5	68	5	87	3
Newaygo	3,495	356	16,789	2,155	1,269	226	36	5	60	5	90	3
Oakland	937	135	4,001	897	283	72	30	7	66	7	85	6

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one county. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.

<sup>c</sup>Proportion of hunters that indicated they experienced no or only minor interference from other hunters.

<sup>d</sup>Not open for turkey hunting.

Table 3 (continued). Estimated number of hunters, hunting effort, harvest, hunter success, hunter satisfaction, and hunt interference during the 2006 Michigan spring turkey hunting season. Estimates combined quota and unlimited quota hunts in each county.

County	Hunters <sup>a</sup>		Hunting efforts (days) <sup>a</sup>		Harvest <sup>a</sup>		Hunter success		Hunter satisfaction <sup>b</sup>		Noninterfered hunters <sup>c</sup>	
	Total	95% CL	Total	95% CL	Total	95% CL	%	95% CL	%	95% CL	%	95% CL
Oceana	1,532	240	7,138	1,386	629	151	41	8	69	7	81	6
Ogemaw	1,468	246	5,684	1,142	345	133	24	8	59	9	90	5
Ontonagon <sup>d</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Osceola	1,174	244	4,692	1,154	323	121	28	9	61	11	94	5
Oscoda	1,258	221	5,060	1,037	195	94	15	7	43	9	86	6
Otsego	1,090	190	4,425	950	366	119	34	9	55	9	91	5
Ottawa	1,877	189	8,000	1,050	757	119	40	5	73	5	83	4
Presque Isle	1,013	138	4,169	792	315	89	31	8	53	8	90	5
Roscommon	1,264	222	5,664	1,181	247	100	20	7	45	9	85	7
Saginaw	2,271	214	11,800	1,583	823	125	36	5	65	5	86	3
St. Clair	1,918	196	8,662	1,202	671	116	35	5	65	5	88	3
St. Joseph	1,075	145	5,264	951	377	85	35	6	63	7	85	5
Sanilac	2,609	232	11,784	1,492	871	135	33	4	65	4	90	3
Schoolcraft <sup>d</sup>	0	0	0	0	0	0	0	0	0	0	0	0
Shiawassee	1,494	176	7,719	1,357	557	105	37	6	71	5	90	4
Tuscola	2,892	229	12,859	1,517	1,045	142	36	4	68	4	87	3
Van Buren	1,712	182	8,052	1,323	656	109	38	5	70	5	87	4
Washtenaw	911	133	3,746	688	308	76	34	7	66	7	90	4
Wayne	17	16	32	27	6	9	37	45	69	45	69	45
Wexford	1,339	263	6,112	1,508	363	144	27	9	57	10	88	6
Unknown	2,187	250	9,853	1,610	249	74	11	3	50	6	85	4

<sup>a</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one county. Column totals for hunting effort and harvest may not equal statewide totals because of rounding errors.

<sup>b</sup>Proportion of hunters that rated their hunting experience as excellent, very good, or good.

<sup>c</sup>Proportion of hunters that indicated they experienced no or only minor interference from other hunters.

<sup>d</sup>Not open for turkey hunting.

Table 4. Estimated number and proportion of hunters hunting on private and public lands during the spring 2006 Michigan turkey hunting season.<sup>a</sup>

Management unit	Private land only				Public land only				Both private and public lands				Unknown land			
	Total	95% CL	%	95% CL	Total	95% CL	%	95% CL	Total	95% CL	%	95% CL	Total	95% CL	%	95% CL
Hunt periods with quotas																
A	1,262	112	76	6	206	73	12	4	191	71	12	4	0	0	0	0
AA	335	53	44	7	331	53	43	7	75	31	10	4	24	18	3	2
B	1,362	99	86	5	130	57	8	4	94	51	6	3	0	0	0	0
E	892	70	77	5	210	56	18	5	46	28	4	2	6	11	1	1
F	1,284	239	31	6	2,422	265	59	6	375	146	9	4	0	0	0	0
J	1,602	190	60	7	711	159	27	6	318	116	12	4	28	38	1	1
K	3,116	384	53	6	1,990	351	34	6	782	249	13	4	0	0	0	0
L	375	84	26	6	904	99	63	6	156	60	11	4	0	0	0	0
M	329	50	51	7	224	46	35	7	93	33	14	5	0	0	0	0
MA	155	22	54	7	81	19	28	6	46	15	16	5	5	6	2	2
N	701	58	76	5	124	40	13	4	90	35	10	4	5	9	1	1
O	720	78	68	6	251	63	24	6	93	42	9	4	0	0	0	0
P	208	28	61	7	111	25	33	7	21	12	6	4	0	0	0	0
Q	542	85	46	7	514	83	43	7	130	51	11	4	0	0	0	0
QD	16	3	62	10	10	3	38	10	0	0	0	0	0	0	0	0
R	89	19	34	7	125	20	48	7	46	15	18	6	3	4	1	1
RA	16	4	71	15	6	3	29	15	0	0	0	0	0	0	0	0
T	397	73	35	6	581	78	51	7	131	48	12	4	19	20	2	2
U	380	59	46	7	365	58	44	7	86	35	10	4	0	0	0	0
UA	391	60	51	7	280	55	37	7	90	36	12	5	5	9	1	1

<sup>a</sup>Row totals may not equal 100% because of rounding errors.



Table 4 (continued). Estimated number and proportion of hunters hunting on private and public lands during the spring 2006 Michigan turkey hunting season.<sup>a</sup>

Management unit	Private land only				Public land only				Both private and public lands				Unknown land			
	Total	95% CL	95% %	95% CL	Total	95% CL	95% %	95% CL	Total	95% CL	95% %	95% CL	Total	95% CL	95% %	95% CL
Hunt periods with quotas																
UB	83	9	72	7	29	8	25	7	2	2	1	2	2	2	1	2
W	510	55	72	6	127	39	18	5	64	30	9	4	5	9	1	1
X	411	73	37	6	558	76	51	6	125	46	11	4	6	11	1	1
Z	132	23	42	7	152	23	49	7	28	13	9	4	0	0	0	0
ZA	132	26	30	6	284	28	66	6	15	9	3	2	3	5	1	1
Subtotal	15,440	566	53	2	10,726	529	37	2	3,097	354	11	1	111	52	0	0
Hunt period 301 with quota (Management Unit ZZ; April 17-30, 2006)																
L	2,189	176	100	0	0	0	0	0	0	0	0	0	0	0	0	0
P	5,423	263	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Q	3,006	204	100	0	0	0	0	0	0	0	0	0	0	0	0	0
QD	103	40	100	0	0	0	0	0	0	0	0	0	0	0	0	0
R	1,531	150	100	0	0	0	0	0	0	0	0	0	0	0	0	0
RA	1,189	132	100	0	0	0	0	0	0	0	0	0	0	0	0	0
T	3,360	215	100	0	0	0	0	0	0	0	0	0	0	0	0	0
U	1,528	150	100	0	0	0	0	0	0	0	0	0	0	0	0	0
UA	690	102	100	0	0	0	0	0	0	0	0	0	0	0	0	0
UB	1,051	125	100	0	0	0	0	0	0	0	0	0	0	0	0	0
W	1,493	146	100	0	0	0	0	0	0	0	0	0	0	0	0	0
X	4,192	236	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Z	1,846	163	100	0	0	0	0	0	0	0	0	0	0	0	0	0

<sup>a</sup>Row totals may not equal 100% because of rounding errors.

Table 4 (continued). Estimated number and proportion of hunters hunting on private and public lands during the spring 2006 Michigan turkey hunting season.<sup>a</sup>

Management unit	Private land only				Public land only				Both private and public lands				Unknown land			
	Total	95% CL	95% %	95% CL	Total	95% CL	95% %	95% CL	Total	95% CL	95% %	95% CL	Total	95% CL	95% %	95% CL
Hunt period 301 with quota (Management Unit ZZ; April 17-30, 2006)																
ZA	1,129	130	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	895	114	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	28,460	235	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Unlimited quota hunt period (Hunt 234; May 1-31, 2006)																
A	387	102	82	9	45	35	10	7	34	31	7	6	0	0	0	0
AA	146	64	42	14	129	60	37	14	59	41	17	11	17	22	5	6
B	341	95	77	10	78	46	17	9	26	27	6	6	0	0	0	0
E	1,259	182	62	6	493	115	24	5	257	85	13	4	17	22	1	1
F	1,075	169	39	5	1,334	188	49	5	297	90	11	3	17	22	1	1
J	1,217	180	67	6	331	91	18	5	249	82	14	4	17	22	1	1
K	5,491	369	59	3	2,420	250	26	2	1,310	188	14	2	84	49	1	1
L <sup>b</sup>	2,259	244	100	0	0	0	0	0	0	0	0	0	0	0	0	0
M	92	49	41	17	82	46	36	17	42	35	19	14	8	15	4	7
MA	68	44	60	24	37	31	32	23	9	15	8	13	0	0	0	0
N	296	89	76	11	66	41	17	10	29	27	7	7	0	0	0	0
O	338	94	68	11	105	54	21	9	56	38	11	7	0	0	0	0
P <sup>b</sup>	3,991	319	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Q <sup>b</sup>	3,001	279	100	0	0	0	0	0	0	0	0	0	0	0	0	0
QD <sup>b</sup>	96	51	100	0	0	0	0	0	0	0	0	0	0	0	0	0
R <sup>b</sup>	1,518	201	100	0	0	0	0	0	0	0	0	0	0	0	0	0

<sup>a</sup>Row totals may not equal 100% because of rounding errors.

<sup>b</sup>Licenses for the unlimited quota hunt were valid only on private lands in the southern Michigan zone (Figure 1).

Table 4 (continued). Estimated number and proportion of hunters hunting on private and public lands during the spring 2006 Michigan turkey hunting season.<sup>a</sup>

Manage- ment unit	Private land only				Public land only				Both private and public lands				Unknown land			
	Total	95% CL	95% %	95% CL	Total	95% CL	95% %	95% CL	Total	95% CL	95% %	95% CL	Total	95% CL	95% %	95% CL
Unlimited quota hunt period (Hunt 234; May 1-31, 2006)																
RA <sup>b</sup>	977	162	100	0	0	0	0	0	0	0	0	0	0	0	0	0
T <sup>b</sup>	3,068	283	100	0	0	0	0	0	0	0	0	0	0	0	0	0
U	1,858	224	98	2	34	31	2	2	0	0	0	0	0	0	0	0
UA	1,263	185	82	5	154	66	10	4	110	56	7	3	17	22	1	1
UB <sup>b</sup>	835	150	100	0	0	0	0	0	0	0	0	0	0	0	0	0
W <sup>b</sup>	1,712	213	100	0	0	0	0	0	0	0	0	0	0	0	0	0
X <sup>b</sup>	3,540	301	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Z <sup>b</sup>	2,190	241	100	0	0	0	0	0	0	0	0	0	0	0	0	0
ZA <sup>b</sup>	1,542	204	100	0	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	831	142	70	7	252	80	21	6	81	46	7	4	17	22	1	2
Subtotal	36,138	629	82	1	4,339	330	10	1	3,410	296	8	1	185	72	<1	<1
Statewide <sup>c</sup>	80,038	879	79	1	15,065	623	15	1	6,507	461	6	0	296	89	<1	<1

<sup>a</sup>Row totals may not equal 100% because of rounding errors.

<sup>b</sup>Licenses for the unlimited quota hunt were valid only on private lands in the southern Michigan zone (Figure 1).

<sup>c</sup>Number of hunters does not add up to statewide total because hunters can hunt in more than one unit for the unlimited quota hunt.

Table 5. How hunters rated their hunting experience during the spring 2006 Michigan turkey hunting season.

Management unit	Satisfaction level (% of hunters) <sup>a</sup>					
	Excellent	Very good	Good	Fair	Poor	No answer
Hunt periods with quotas						
A	12	14	28	25	20	2
AA	9	10	26	23	31	1
B	15	16	22	19	25	3
E	13	25	25	17	18	2
F	11	14	28	21	25	1
J	18	14	26	25	15	1
K	16	19	29	20	15	2
L	17	21	31	19	9	3
M	12	16	29	21	21	1
MA	15	16	30	28	11	1
N	13	22	25	17	19	3
O	21	24	25	20	10	0
P	27	12	30	19	11	2
Q	19	15	26	26	12	2
QD	14	35	31	9	10	0
R	16	21	24	21	17	1
RA	14	14	29	29	14	0
T	15	19	27	24	12	3
U	20	17	30	16	13	3
UA	14	25	29	17	14	1
UB	14	22	28	16	19	1
W	18	16	31	23	11	0
X	17	19	25	24	13	3
Z	18	17	31	24	10	1
ZA	14	17	26	28	10	4
Mean <sup>b</sup>	15	18	27	21	17	2

<sup>a</sup>Row totals may not equal 100% because of rounding errors.

<sup>b</sup>Mean satisfaction levels for hunt periods with quotas.

Table 5 (continued). How hunters rated their hunting experience during the spring 2006 Michigan turkey hunting season.

Management unit	Satisfaction level (% of hunters) <sup>a</sup>					No answer
	Excellent	Very good	Good	Fair	Poor	
Hunt period 301 with quota (Management Unit ZZ; April 17-30, 2006)						
L	25	21	29	17	7	1
P	24	24	25	17	8	2
Q	25	20	28	18	7	2
QD	33	11	20	10	20	5
R	18	26	25	19	11	1
RA	25	20	28	15	9	3
T	21	19	29	18	12	2
U	19	23	30	20	7	2
UA	22	29	28	13	5	3
UB	20	22	32	16	7	2
W	19	22	29	18	10	2
X	27	20	27	15	9	2
Z	22	24	27	16	7	3
ZA	20	24	30	16	9	1
Unknown	16	20	30	18	12	5
Mean <sup>b</sup>	23	22	27	17	9	2

<sup>a</sup>Row totals may not equal 100% because of rounding errors.

<sup>b</sup>Mean satisfaction levels for Hunt 301.

Table 5 (continued). How hunters rated their hunting experience during the spring 2006 Michigan turkey hunting season.

Management unit	Satisfaction level (% of hunters) <sup>a</sup>					No answer
	Excellent	Very good	Good	Fair	Poor	
Unlimited quota hunt period (Hunt 234; May 1-31, 2006)						
A	9	9	33	25	24	0
AA	3	17	27	12	41	0
B	9	7	24	30	29	2
E	12	12	25	23	25	3
F	8	12	23	23	33	2
J	9	15	30	24	21	1
K	13	17	27	22	18	2
L	19	23	26	20	10	3
M	1	23	28	24	24	0
MA	1	37	1	16	46	0
N	27	10	28	15	21	0
O	14	25	26	18	14	3
P	18	20	28	21	11	3
Q	20	21	27	17	13	3
QD	17	10	28	35	10	0
R	17	19	27	21	12	4
RA	19	17	29	20	11	4
T	13	21	29	20	13	3
U	14	20	25	23	16	1
UA	14	22	27	22	12	3
UB	18	27	27	19	5	4
W	15	22	31	17	15	1
X	18	21	27	20	12	3
Z	17	27	23	19	11	3
ZA	18	18	35	17	10	3
Unknown	10	16	26	21	22	6
Mean <sup>b</sup>	15	19	27	21	16	2
Statewide <sup>c</sup>	17	19	27	20	14	2

<sup>a</sup>Row totals may not equal 100% because of rounding errors.

<sup>b</sup>Mean satisfaction levels for Hunt 234.

<sup>c</sup>Statewide mean satisfaction levels (all hunts and periods).

Table 6. Estimated amount of hunter interference experienced by turkey hunters during the spring 2006 Michigan turkey hunting season.

Management unit	Interference level (% of hunters) <sup>a</sup>				
	None	Minor	Some irritation	Major problem	No answer
Hunt periods with quotas					
A	76	15	7	1	2
AA	66	17	12	4	1
B	79	14	5	1	1
E	76	20	2	0	2
F	62	26	9	3	1
J	72	17	8	2	2
K	61	27	8	3	1
L	47	34	13	4	3
M	67	19	10	3	1
MA	62	27	8	2	1
N	68	21	9	1	2
O	71	25	2	3	0
P	65	24	7	2	1
Q	56	26	13	3	2
QD	55	19	21	5	0
R	55	29	14	0	2
RA	79	14	0	7	0
T	61	27	8	3	2
U	61	29	8	1	2
UA	55	31	10	3	1
UB	66	19	7	6	1
W	65	28	6	0	0
X	58	23	11	3	4
Z	61	29	9	0	1
ZA	57	25	12	4	2
Mean <sup>b</sup>	64	24	8	2	1

<sup>a</sup>Row totals may not equal 100% because of rounding errors.

<sup>b</sup>Mean interference levels for hunt periods with quotas.

Table 6 (continued). Estimated amount of hunter interference experienced by turkey hunters during the spring 2006 Michigan turkey hunting season.

Management unit	Interference level (% of hunters) <sup>a</sup>				
	None	Minor	Some irritation	Major problem	No answer
Hunt period 301 with quota (Management Unit ZZ; April 17-30, 2006)					
L	58	29	11	1	1
P	64	22	10	2	2
Q	64	21	10	3	2
QD	70	15	15	0	0
R	66	22	9	2	1
RA	67	22	7	2	2
T	65	24	8	2	2
U	63	25	8	2	1
UA	57	32	8	1	2
UB	54	29	14	2	1
W	69	20	8	1	2
X	64	21	11	2	2
Z	63	23	10	1	3
ZA	67	21	9	2	1
Unknown	69	20	7	2	2
Mean <sup>b</sup>	64	23	10	2	2

<sup>a</sup>Row totals may not equal 100% because of rounding errors.

<sup>b</sup>Mean interference levels for Hunt 301.



Table 6 (continued). Estimated amount of hunter interference experienced by turkey hunters during the spring 2006 Michigan turkey hunting season.

Management unit	Interference level (% of hunters) <sup>a</sup>				
	None	Minor	Some irritation	Major problem	No answer
Unlimited quota hunt period (Hunt 234; May 1-31, 2006)					
A	73	25	0	0	2
AA	73	15	7	5	0
B	85	13	0	2	0
E	69	21	7	1	2
F	70	17	7	3	3
J	71	22	5	1	1
K	66	22	9	2	2
L	68	22	7	1	3
M	72	23	4	0	0
MA	77	16	0	0	7
N	68	25	5	2	0
O	76	17	4	2	2
P	68	20	9	2	1
Q	73	17	7	1	1
QD	82	10	0	9	0
R	62	22	12	1	2
RA	69	20	7	0	3
T	65	21	8	3	3
U	74	19	5	1	1
UA	65	20	10	3	2
UB	59	26	8	3	3
W	71	20	6	0	2
X	71	19	5	2	3
Z	69	19	8	2	3
ZA	72	18	7	1	2
Unknown	74	16	6	2	2
Mean <sup>b</sup>	69	19	7	2	2
Statewide <sup>c</sup>	66	22	8	2	2

<sup>a</sup>Row totals may not equal 100% because of rounding errors.

<sup>b</sup>Mean interference levels for Hunt 234.

<sup>c</sup>Statewide mean interference levels (all hunts and periods).

Table 7. Estimated number of hunting efforts, hunters, hunting success, noninterfered hunters, and hunter rating of the 2006 spring turkey hunting season, by hunt periods.

Variable	Hunt periods beginning								All periods <sup>a</sup>	
	April 17		April 24		May 1		May 8			
	Estimate	95% CL	Estimate	95% CL	Estimate	95% CL	Estimate	95% CL	Estimate	95% CL
Hunting efforts (days)	179,532	3,616	38,088	2,606	260,044	6,811	12,944	1,544	490,608	7,833
Number of hunters	43,708	610	10,215	545	45,885	592	2,098	167	101,907	729
Successful hunters (n)	19,534	576	2,856	340	15,947	564	605	94	38,942	846
Successful hunters (%)	45	1	28	3	35	1	29	4	38	1
Noninterfered hunters (n) <sup>b</sup>	38,248	636	8,977	531	40,645	632	1,829	158	89,699	844
Noninterfered hunters (%) <sup>b</sup>	88	1	88	2	89	1	87	3	88	1
Favorable rating (n) <sup>c</sup>	30,015	626	5,931	466	27,654	649	1,314	139	64,913	931
Favorable rating (%) <sup>c</sup>	69	1	58	3	60	1	63	4	64	1

<sup>a</sup>Row totals may not equal totals for all periods because of rounding errors.

<sup>b</sup>Proportion of hunters that indicated they experienced no or only minor interference from other hunters.

<sup>c</sup>Hunters rating their hunting experience as excellent, very good, or good.

Table 8. Comparison of the estimated number of hunters, hunting effort, and harvest between 2005 and 2006 Michigan spring turkey hunting seasons, summarized by regions.

Region <sup>a</sup>	Hunters (No.) <sup>b</sup>					Hunting efforts (days)					Harvest (No.)				
	2005		2006		Change (%)	2005		2006		Change (%)	2005		2006		Change (%)
	Total	95% CL	Total	95% CL		Total	95% CL	Total	95% CL		Total	95% CL	Total	95% CL	
UP	3,635	192	4,074	192	12*	13,969	1,172	17,858	1,673	28*	1,502	132	1,660	152	10
NLP	32,674	618	35,457	699	9*	136,203	4,452	162,031	5,604	19*	10,685	546	11,681	611	9
SLP	52,905	611	62,058	702	17*	253,348	5,306	300,866	6,268	19*	23,085	521	25,352	608	10*
Unknown	2,888	258	2,187	250		13,034	1,589	9,853	1,610		275	71	249	74	
Total	90,287	604	101,907	729	13*	416,553	6,334	490,608	7,833	18*	35,547	738	38,942	846	10*

<sup>a</sup>Regions included the Upper Peninsula (UP), the northern Lower Peninsula north of Management Unit ZZ (NLP), and Management Unit ZZ in the southern Lower Peninsula (SLP).

<sup>b</sup>Number of hunters did not add up to statewide total because hunters can hunt in more than one unit for the unlimited quota hunt.

\*P<0.005.

Table 9. Comparison of estimated hunter success, hunter satisfaction, and hunt interference between 2005 and 2006 Michigan spring turkey hunting season, summarized by regions.

Region <sup>a</sup>	Hunter success					Hunter satisfaction <sup>b</sup>					Noninterfered hunters <sup>c</sup>				
	2005		2006		Differ- ence (%)	2005		2006		Differ- ence (%)	2005		2006		Differ- ence (%)
	%	95% CL	%	95% CL		%	95% CL	%	95% CL		%	95% CL	%	95% CL	
UP	41	3	41	3	-1	59	3	62	3	3	90	2	91	2	2
NLP	33	2	33	2	0	55	2	56	2	1	89	1	89	1	0
SLP	44	1	41	1	-3*	71	1	69	1	-2*	88	1	88	1	-1
Total	39	1	38	1	-1	64	1	64	1	0	88	1	88	1	0

<sup>a</sup>Regions included the Upper Peninsula (UP), the northern Lower Peninsula north of Management Unit ZZ (NLP), and Management Unit ZZ in the southern Lower Peninsula (SLP).

<sup>b</sup>Hunters rating their hunting experience as excellent, very good, or good.

<sup>c</sup>Proportion of hunters that indicated they experienced no or only minor interference from other hunters.

\*P<0.005.

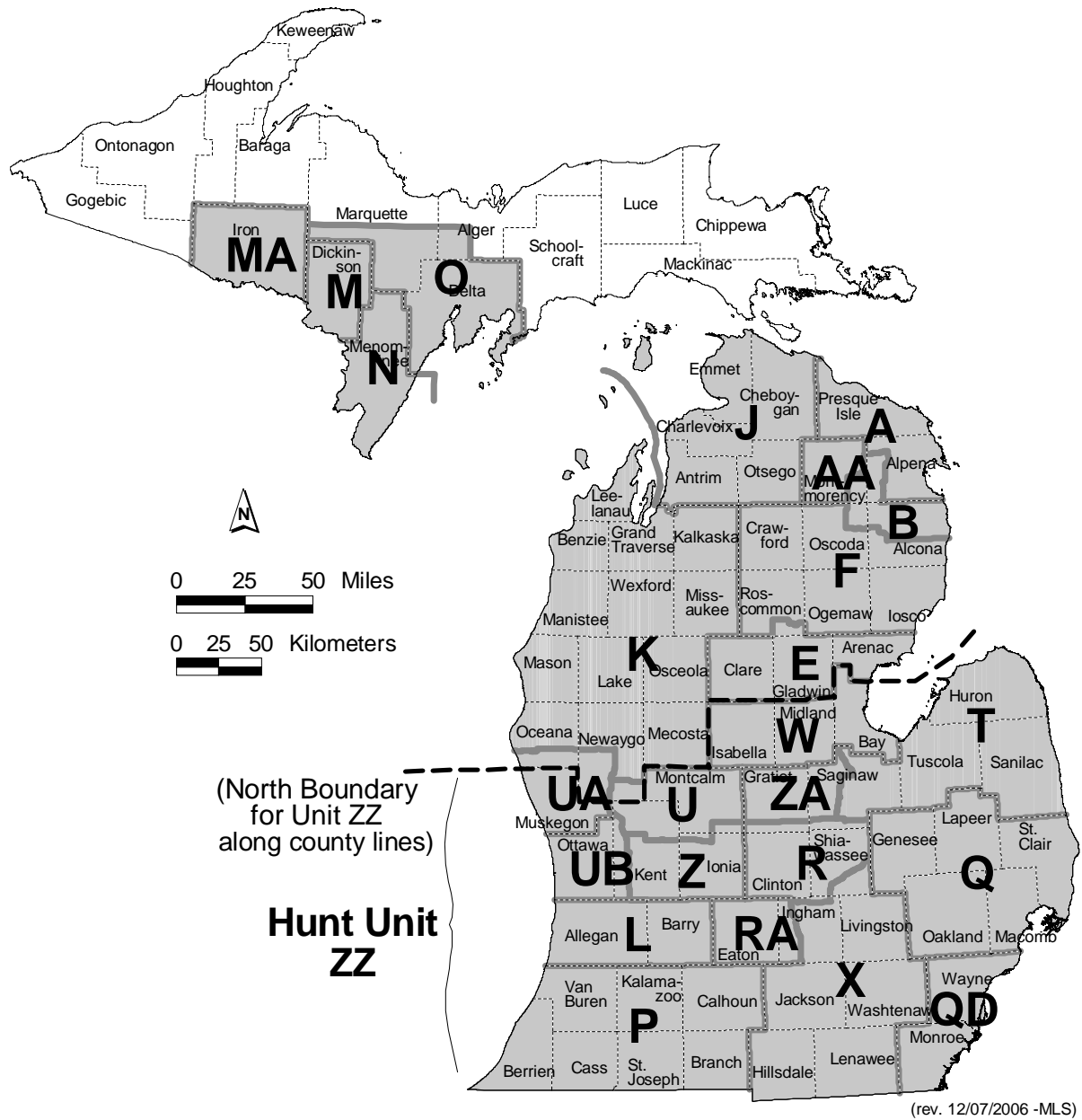


Figure 1. Management units in Michigan open to spring turkey hunting in 2006.

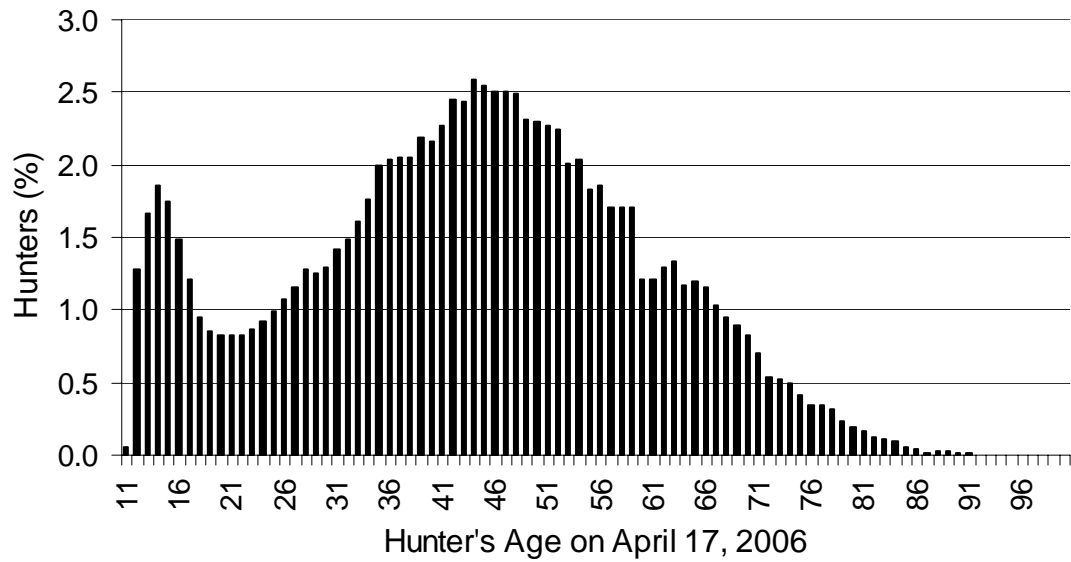


Figure 2. Age of people that purchased a turkey hunting license in Michigan for the 2006 spring hunting season ( $\bar{x}$  = 43 years). Licenses were purchased by 108,640 people.

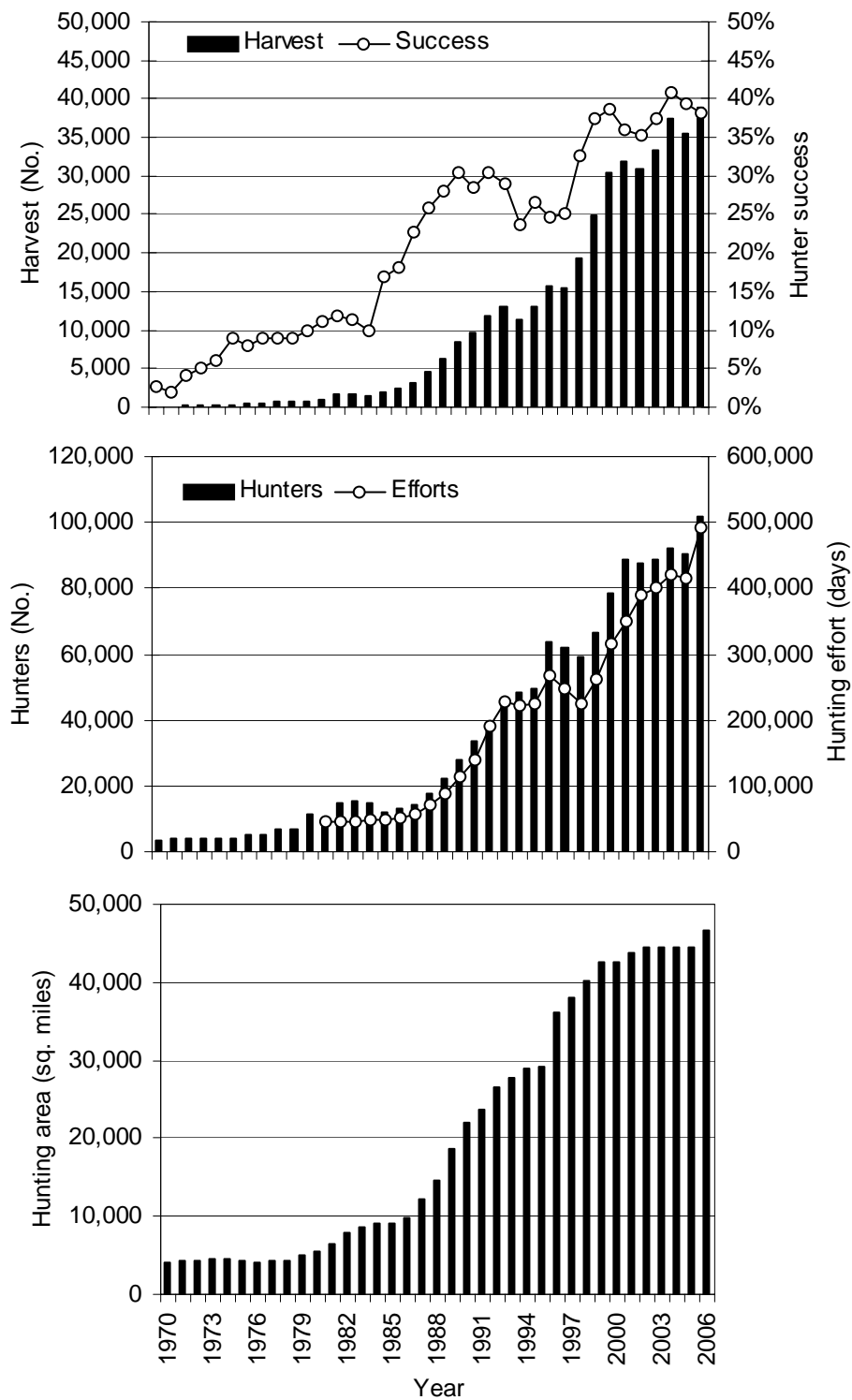


Figure 3. Estimated number of hunters, harvest, hunting efforts, hunting success, and area open to hunting during the Michigan spring turkey hunting season, 1970-2006. Estimates of hunting effort generally were not available before 1981.

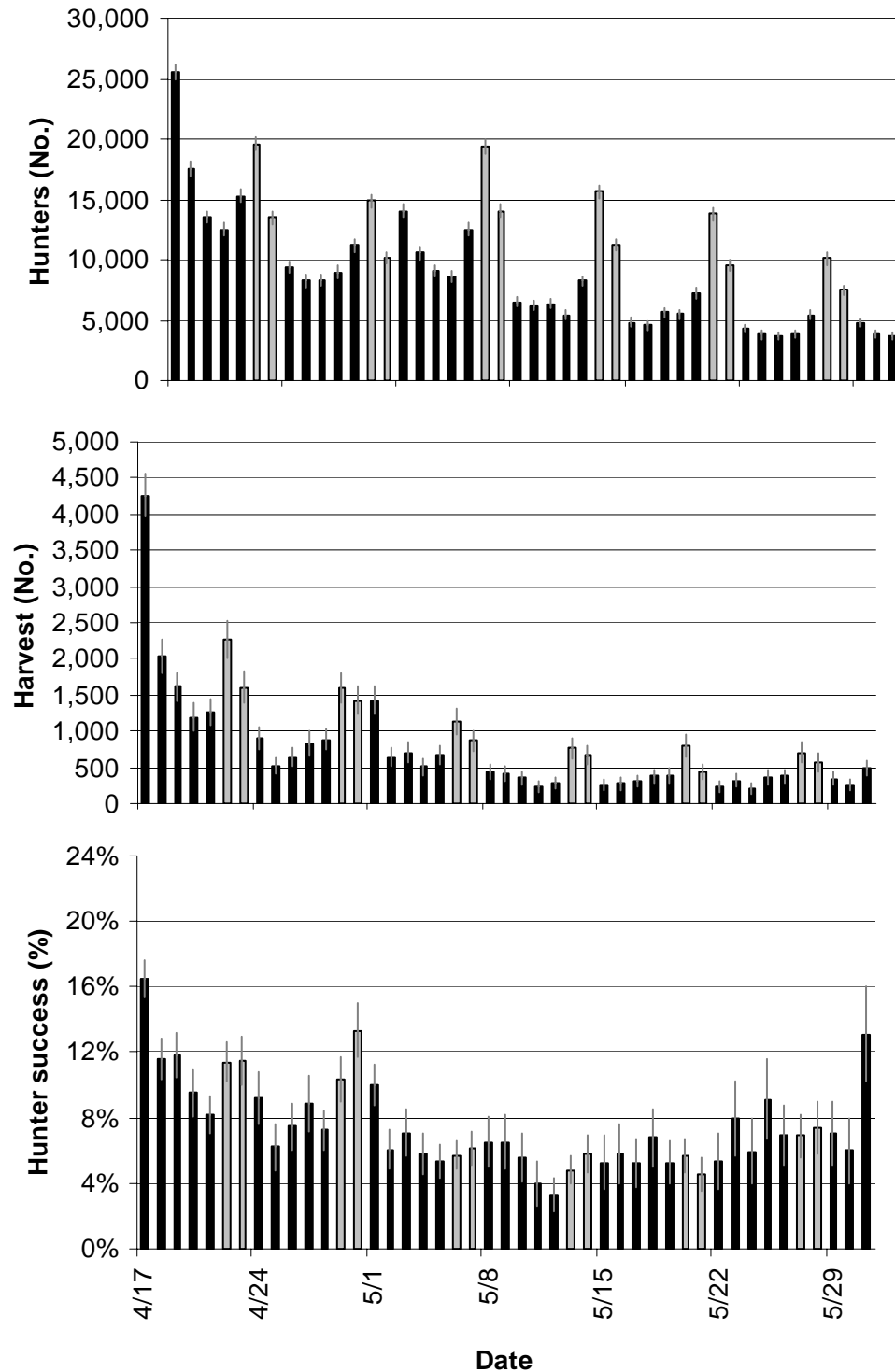


Figure 4. Estimated number of hunters, harvest, and hunter success by date during the 2006 Michigan spring turkey hunting season (includes all hunts). An additional  $1,503 \pm 196$  birds were taken on unknown dates. Gray-shaded bars indicate weekends. Vertical bars represent the 95% confidence interval.

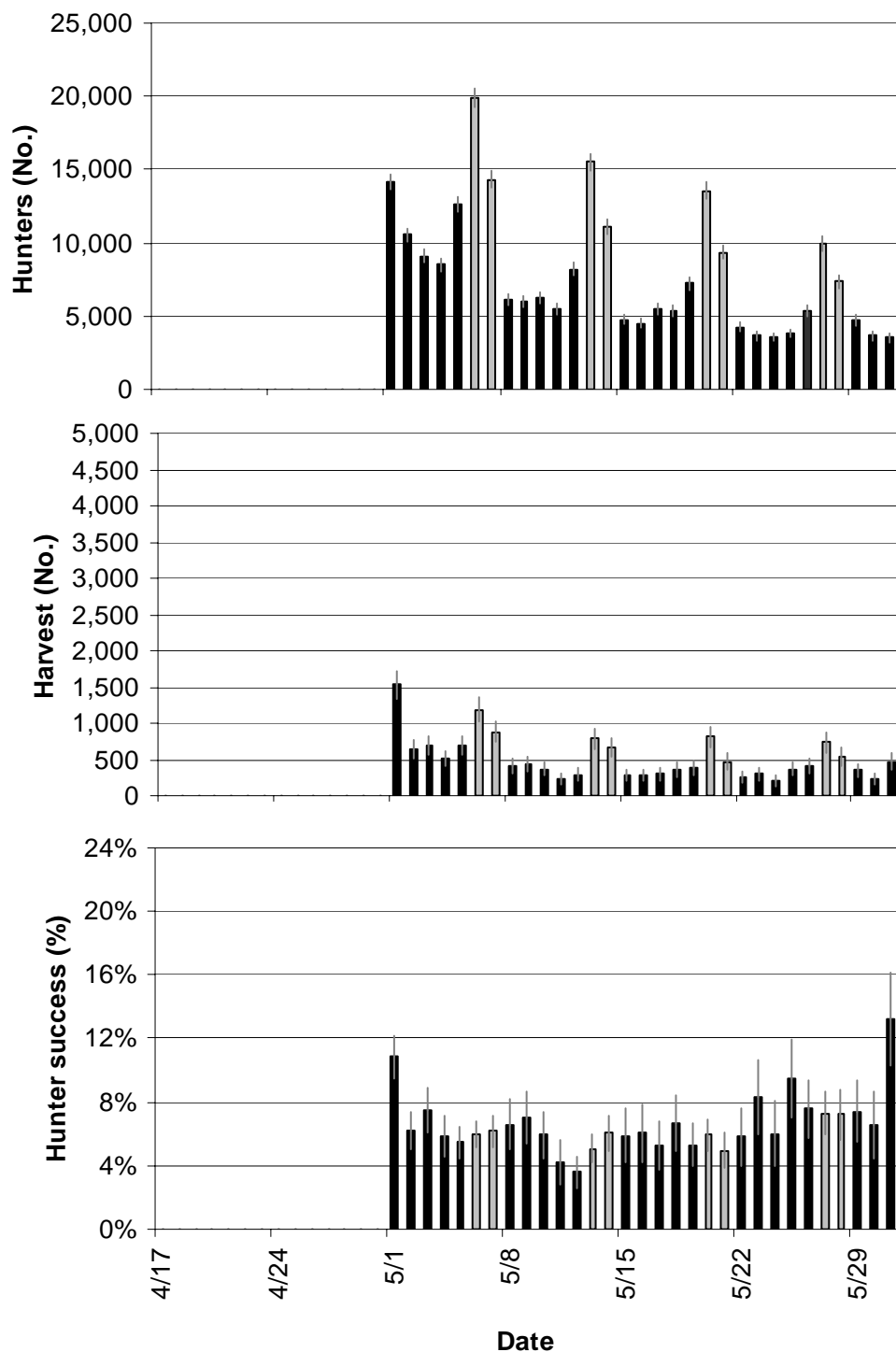


Figure 5. Estimated number of hunters, harvest, and hunter success by date during Hunt 234 of the 2006 Michigan spring turkey hunting season (May 1-31). An additional  $654 \pm 130$  birds were taken on unknown dates. Gray-shaded bars indicate weekends. Vertical bars represent the 95% confidence interval.



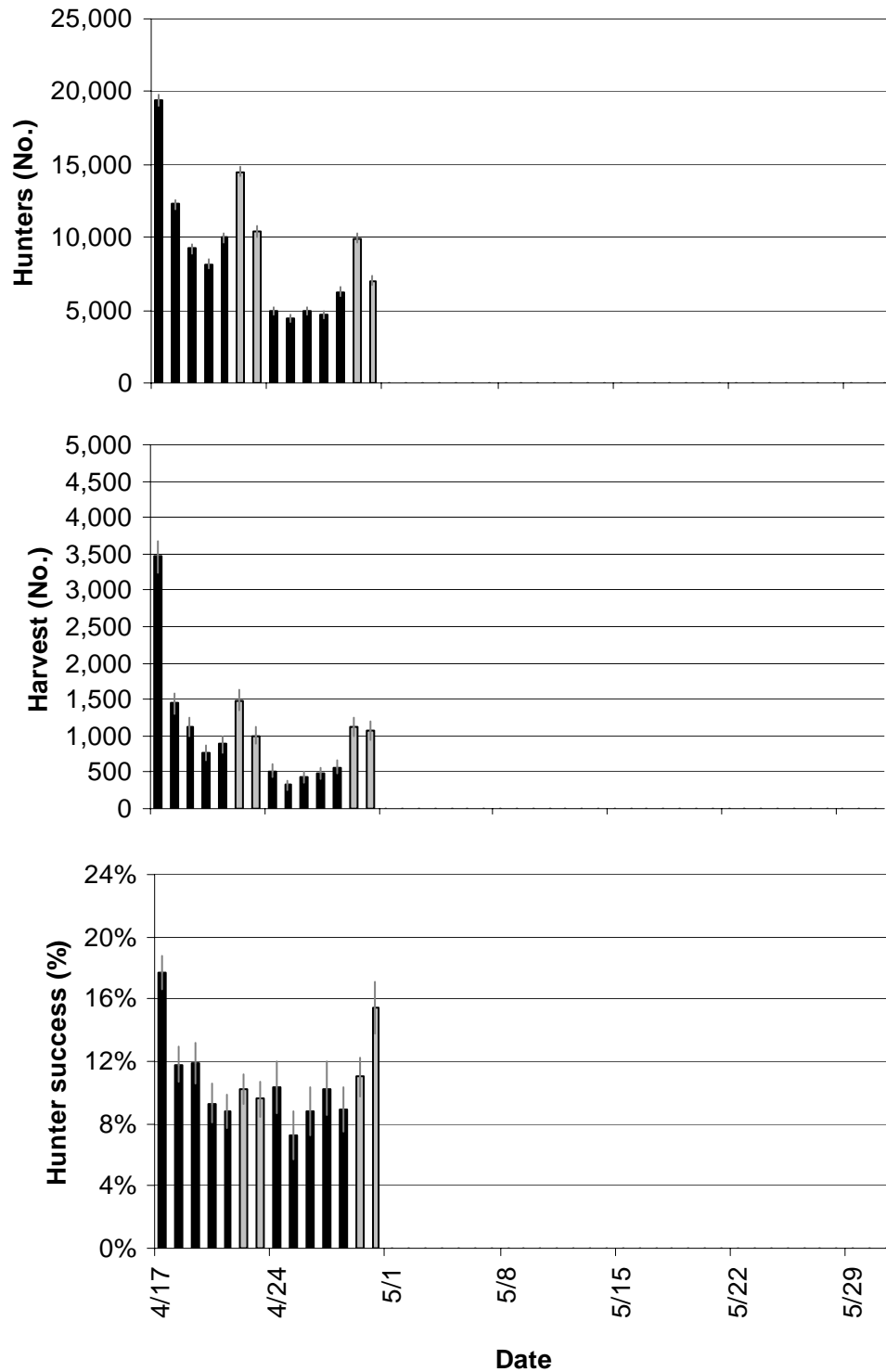


Figure 6. Estimated number of hunters, harvest, and hunter success by date during Hunt 301 of the 2006 Michigan spring turkey hunting season (April 17-30). An additional  $516 \pm 75$  birds were taken on unknown dates. Gray-shaded bars indicate weekends. Vertical bars represent the 95% confidence interval.

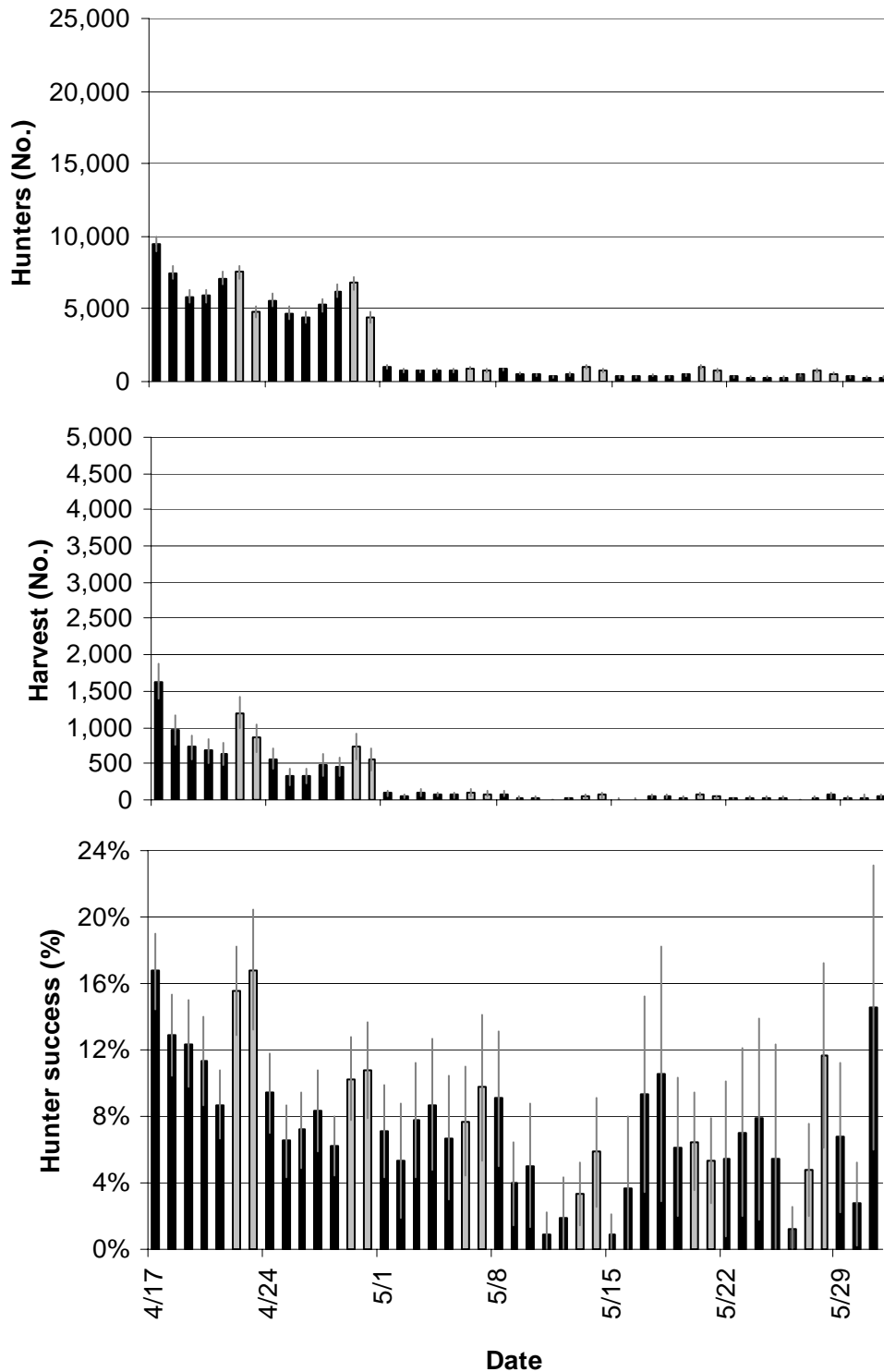


Figure 7. Estimated number of hunters, harvest, and hunter success by date during all hunts except hunts 234 and 301 of the 2006 Michigan spring turkey hunting season. An additional  $359 \pm 127$  birds were taken on unknown dates. Gray-shaded bars indicate weekends. Vertical bars represent the 95% confidence interval.

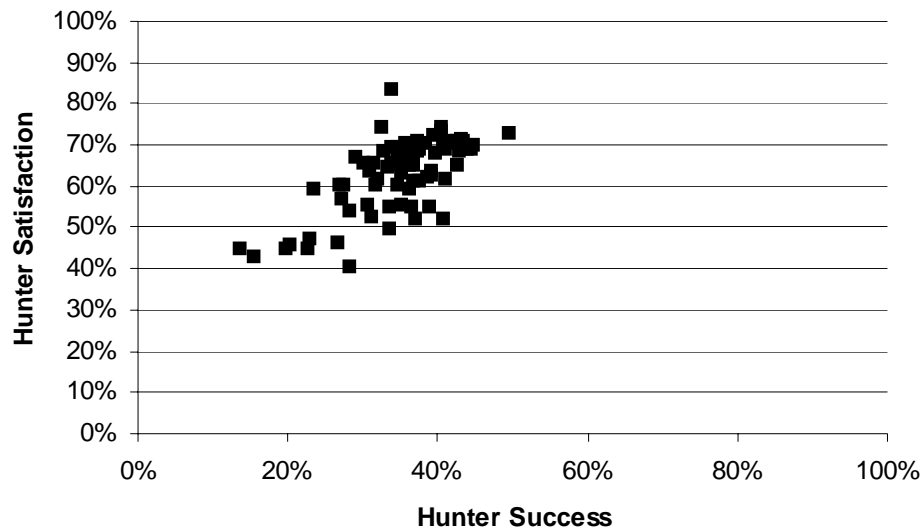


Figure 8. Relationship between hunter satisfaction (expressed as the percentage of hunters rating their hunting experience as excellent, very good, or good) and hunter success for each of 74 counties in Michigan during the 2006 spring turkey hunting season.

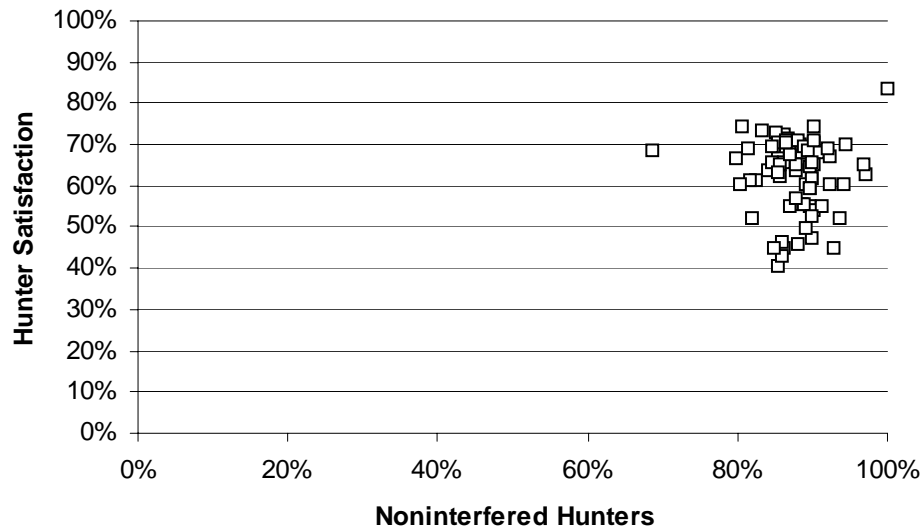


Figure 9. Relationship between hunter satisfaction (expressed as the percentage of hunters rating their hunting experience as excellent, very good, or good) and hunter interference for each of 74 counties in Michigan during the 2006 spring turkey hunting season. Noninterfered hunters were the proportion of hunters that indicated that they experienced no or only minor interference from other hunters.